AUTHOR INDEX TO VOLUME 157

Adamowicz, L. and C.I. Frum, Electronic structure of polyatomic systems determined with first-order correlation orbitals. Coupled cluster calculations on lithium cyanide 157 (1989) 496
Ahmed, M. and A.B. Callear, Mercury photosensitised excitation of SO_2. Formation of triplet states in termolecular collisions 157 (1989) 556
Albertoni, C.R., A.W. Castleman Jr. and E.E. Ferguson, Consideration of rotational tunneling in rare gas cluster ions 157 (1989) 159
Amano, T., see N. Moazzen-Ahmadi 157 (1989) 1
Anastasi, C., see P. Pagsberg 157 (1989) 271
Anderson, S.M. and K.E. McCurdy, New measurements of ^{13}C isotopic line shifts for the 0–0 band of the CH(A←X) system 157 (1989) 531
Aoyagi, M., see M. Ata 157 (1989) 19
Arai, T., H. Okamoto, H. Sakuragi and K. Tokumaru, Mechanism for photoisomerization of 1-styrylpyrene. Finding of a novel type of triplet energy surface with two decay funnels 157 (1989) 46
Ata, M., Y. Suzuki, Y. Kubozono, M. Aoyagi and Y. Gondo, Determination of the deuteron and alkyl-substituent hyperfine coupling constants in nitrobenzene radical anions by formation of cyclodextrin inclusion complexes 157 (1989) 19
Ault, B.S., Excimer-laser-induced oxidation of diborane: formation and isolation of HBO, $HB^{18}O$ and $H_3B_3O_3$ in argon matrices 157 (1989) 547

Bačić, Z., see J.D. Kress 157 (1989) 484
Bacskay, G.B., A quantum chemical study of the HBr and HCN...HBr molecules: the effects of hydrogen bonding on molecular properties 157 (1989) 115
Bader, J.S. and D. Chandler, Computer simulation of photochemically induced electron transfer 157 (1989) 501
Bartlett, R.J., see J.D. Watts 157 (1989) 359
Basch, H., The electronic structure of X_3, X=O, Se and Te and their anions 157 (1989) 129
Baumgärtel, H., see E. Rühl 157 (1989) 379
Ben Brahim, M., see C. Cazeau-Dubroca 157 (1989) 393
Bensimon, M., G. Zhao and T. Gäumann, A method to generate phase continuity in two-dimensional Fourier transform ion cyclotron resonance mass spectrometry 157 (1989) 97
Berman, M.R., Production and quenching of XeCl(B,C) and Xe_2Cl^* initiated by two-photon excitation of Xe and Xe_2 157 (1989) 562
Bhattacharyya, K., see A. Nag 157 (1989) 83
Bilkis, I.I., see V.V. Konovalov 157 (1989) 257
Billing, G.D., see M. Cacciatore 157 (1989) 305
Blakley, R.L., see M.L. Myrick 157 (1989) 73
Blakley, R.L., Y. Yin, C. Lloyd, J.T. Mague and G.L. McPherson, Photophysics of a flexible ligand bridged rhodium(I) dimer: an excited state conformational change in a crystalline solid 157 (1989) 398
Blasse, G., see L.H. Brixner 157 (1989) 283
Borkovec, M. and H.-F. Eicke, Surfactant monolayer rigidities from Kerr effect measurements on microemulsions 157 (1989) 457

Bortolus, P., see G. Gennari 157 (1989) 194
Brixner, L.H. and G. Blasse, X-ray excited ^6G and lower term emission from the Gd^{3+} ion 157 (1989) 283
Brutschy, B., see E. Rühl 157 (1989) 379
Brzezinski, B., G. Zundel and R. Krämer, An intramolecular chain of four hydrogen bonds with proton polarizability due to collective proton motion 157 (1989) 512
Burkhart, R.D., see D.K. Chakraborty 157 (1989) 189

Cacciatore, M., M. Capitelli and G.D. Billing, Vibration-to-translation energy exchanges in H_2 colliding with highly vibrationally excited H_2 molecules 157 (1989) 305
Callear, A.B., see M. Ahmed 157 (1989) 556
Calvani, P. and S. Lupi, A determination of librational splittings in solid CD_4-II from infrared spectra 157 (1989) 11
Campochiaro, C., D.S. McClure, P. Rabinowitz and S. Dougal, Vibronic coupling in the two-photon $^4A_2 \rightarrow {}^4T_2$ spectrum of Mn^{4+} in the cubic and trigonal sites of Cs_2MF_6, M=Si, Ge, Ti 157 (1989) 78
Canuto, S. and M.C. Zerner, On the inter-ring separation of the lowest excited and ionized states of [2.2]paracyclophane 157 (1989) 353
Capitelli, M., see M. Cacciatore 157 (1989) 305
Castillejo, M., J.M. Figuera, I. Garcia-Moreno and J. Medina, Quenching of $CH_2(\tilde{b}\,^1B_1)$ by hydrocarbons 157 (1989) 41
Castleman Jr., A.W., see C.R. Albertoni 157 (1989) 159
Cazeau, Ph., see C. Cazeau-Dubroca 157 (1989) 393
Cazeau-Dubroca, C., A. Peirigua, M. Ben Brahim, G. Nouchi and Ph. Cazeau, Specific hydrogen bonding interaction versus the "free volume" model for TICT molecules in polymeric matrices 157 (1989) 393
Chakraborty, D.K. and R.D. Burkhart, Delayed fluorescence and delayed excimer fluorescence from fluid solutions of poly(2-vinylnaphthalene) in the nanosecond time regime 157 (1989) 189
Chandler, D., see J.S. Bader 157 (1989) 501
Chattopadhyay, N., see A. Nag 157 (1989) 83
Child, M.S., see J.W. Thompson 157 (1989) 343
Chow Chiu, L., T. Krümpelmann and Ch. Ottinger, Ω-level selectivity of $CO(d\,^3\Delta_\Omega)$ produced by excitation transfer from $Xe(^3P_{0,2})$ to $CO(X\,^1\Sigma^+)$ 157 (1989) 60
Chu, S.-I., Z.-C. Wu and E. Layton, Density matrix formulation of complex geometric quantum phases in dissipative systems 157 (1989) 151
Clementi, E., see A.K. Mohanty 157 (1989) 348
Clergeot, B., see T.-H. Tran-Thi 157 (1989) 92
Crespin, M., see I. Palchan 157 (1989) 321
Cuccaro, S.A., P.G. Hipes and A. Kuppermann, Symmetry analysis of accurate $H+H_2$ resonances for low partial waves 157 (1989) 440

DeArmond, M.K., see M.L. Myrick 157 (1989) 73
Debnath, D., see R.V. Gopala Rao 157 (1989) 180
Deshpande, A.V. and N.B. Iyer, Solvent effect and viscosity effect on laser spectra of Eosin Y 157 (1989) 239
Dikanov, S.A., see R.G. Evelo 157 (1989) 25
Dimitrijević, N.M., see P.V. Kamat 157 (1989) 384
Donaldson, D.J., see E.C. Richard 157 (1989) 295

Dougal, S., see C. Campochiaro 157 (1989) 78
Dubicki, L., E. Krausz, M. Riley and I. Yamada, Structured d–d fluorescence from CuF_6^{4-} doped in cubic and tetragonal perovskites 157 (1989) 315
Dutta, R., see A. Nag 157 (1989) 83

Easter, D.C., M.S. El-Shall, M.Y. Hahn and R.L. Whetten, Spectroscopic manifestations of structural shell filling in $(benzene)_N$ clusters, $N=1$–20 157 (1989) 277
Ebbesen, T.W., see P.V. Kamat 157 (1989) 384
Edrei, R. and A. Persky, The temperature dependence of the rate constant for the reaction $F+HBr \rightarrow HF+Br$ 157 (1989) 265
Eicke, H.-F., see M. Borkovec 157 (1989) 457
Eisenthal, K.B., see M.C. Goh 157 (1989) 101
El-Shall, M.S., see D.C. Easter 157 (1989) 277
Estrade-Szwarckopf, H., see I. Palchan 157 (1989) 321
Evelo, R.G., S.A. Dikanov and A.J. Hoff, Electron spin-echo envelope modulation (ESEEM) studies of the tyrosyl radical $D^{\cdot}$ of plant photosystem II 157 (1989) 25

Fain, B. and S.H. Lin, Avalanche phenomenon in UV laser-induced desorption 157 (1989) 233
Ferguson, E.E., see C.R. Albertoni 157 (1989) 159
Figuera, J.M., see M. Castillejo 157 (1989) 41
Forst, W., On the relation between the energy dependence of $\langle \Delta E \rangle$ and of its ensemble (or bulk) average $\langle\langle \Delta E \rangle\rangle$ 157 (1989) 374
François, J.P., see J.M.L. Martin 157 (1989) 217
Frum, C.I., see L. Adamowicz 157 (1989) 496
Fueno, T., see Y. Takahara 157 (1989) 211
Fukushima, M., see H. Hiratsuka 157 (1989) 35

Galiazzo, G., see G. Gennari 157 (1989) 194
Garcia-Moreno, I., see M. Castillejo 157 (1989) 41
Gäumann, T., see M. Bensimon 157 (1989) 97
Gennari, G., G. Galiazzo and P. Bortolus, Dual emission of some styrylquinolines in alcohols 157 (1989) 194
Germann, G.J. and J.J. Valentini, CARS study of the $OH(^2\Pi)$ radical product of the photodissociation of H_2O_2 at 266 nm 157 (1989) 51
Gijbels, R., see J.M.L. Martin 157 (1989) 217
Giroud-Godquin, A.-M., see P. Maldivi 157 (1989) 552
Goh, M.C. and K.B. Eisenthal, The energetics of orientation at the liquid–vapor interface of water 157 (1989) 101
Gondo, Y., see M. Ata 157 (1989) 19
Gopala Rao, R.V. and D. Debnath, Study of particle interactions in microemulsion systems 157 (1989) 180
Guillon, D., see P. Maldivi 157 (1989) 552
Gutman, I., see S.-L. Lee 157 (1989) 229

Haegel, F.-H. and A. Wokaun, Preparation of SERS-active silver colloids by photosensitizing cyanine dyes 157 (1989) 328
Hahn, M.Y., see D.C. Easter 157 (1989) 277
Hamaguchi, H., see K. Iwata 157 (1989) 300
Hasan, M., see B. Kirtman 157 (1989) 123

Hassan, K.H. and J.M. Hollas, Supersonic jet fluorescence spectroscopy of 1,3-benzodioxole: A non-planar (C_2) structure in S_0 157 (1989) 183
Head-Gordon, M., see K. Raghavachari 157 (1989) 479
Heather, R. and H. Metiu, Rotational coherence effects in the femtosecond photodissociation of ICN 157 (1989) 505
Hipes, P.G., see S.A. Cuccaro 157 (1989) 440
Hiraoka, K. and T. Mori, Thermochemical stabilities of $D_3^+(D_2)_n$ with $n=1$–10 157 (1989) 467
Hiratsuka, H., K. Mori, H. Shizuka, M. Fukushima and K. Obi, Emitting states of benzyl, *p*-fluorobenzyl and *p*-cyanobenzyl radicals 157 (1989) 35
Hiraya, A., see T. Ibuki 157 (1989) 521
Hirota, N., see M. Kato 157 (1989) 543
Hoff, A.J., see R.G. Evelo 157 (1989) 25
Hollas, J.M. and J.J.C. Teixeira-Dias, The CH_2Cl torsional barrier of benzyl chloride studied by gas-phase absorption spectroscopy and ab initio calculations 157 (1989) 31
Hollas, J.M., see K.H. Hassan 157 (1989) 183
Hotokka, M. and P. Pyykkö, An ab initio study of bonding trends in the series BO_3^{3-}, CO_3^{2-}, NO_3^- and O_4 (D_{3h}) 157 (1989) 415
Hu, J., see X. Wang 157 (1989) 87
Huo, W.M., see A.M.F. Lau 157 (1989) 108

Ibuki, T., A. Hiraya and K. Shobatake, Photoabsorption spectrum and $CCl_2(\tilde{A}\,^1B_1)$ radical formation in the VUV excitation of C_2Cl_6 157 (1989) 521
Ikeda, H., Y. Kawabe, T. Sakai and K. Kawasaki, Second harmonic generation in non-benzenoid aromatics 157 (1989) 576
Illenberger, E., see J. Lotter 157 (1989) 171
Iwata, K. and H. Hamaguchi, Temperature-dependent microsecond decay dynamics of photogenerated charged solitons in trans-polyacetylene 157 (1989) 300
Iyer, N.B., see A.V. Deshpande 157 (1989) 239
Izmailov, I.A., see V.A. Kochelap 157 (1989) 67

Kamat, P.V., T.W. Ebbesen, N.M. Dimitrijević and A.J. Nozik, Primary photochemical events in CdS semiconductor colloids as probed by picosecond laser flash photolysis 157 (1989) 384
Kasatani, K., see T. Matsushima 157 (1989) 55
Kato, M., S. Yamauchi and N. Hirota, A well resolved phosphorescence spectrum of $[Ru(bpy)_3]^{2+}$ in a diluted system 157 (1989) 543
Kawabe, Y., see H. Ikeda 157 (1989) 576
Kawasaki, K., see H. Ikeda 157 (1989) 576
Kawasaki, M., see T. Matsushima 157 (1989) 55
Khanra, B.C., Muon Knight shifts in the $LaNi_5H_x$ system: a theoretical analysis 157 (1989) 333
Kirtman, B. and M. Hasan, Ab initio longitudinal polarizabilities and hyperpolarizabilities of polydiacetylene and polybutatriene oligomers 157 (1989) 123
Kjær, A.M., N.J. Kjær, J. Ulstrup and M.G. Zakaraya, Bandshape parameter dependence on temperature and solvent dynamics in absorption spectra and Raman excitation profiles of beta-carotene 157 (1989) 447
Kjær, N.J., see A.M. Kjær 157 (1989) 447
Kleindienst, H. and A. Müller, Nonadiabatic lower bound calculations on HD^+, DT^+ and HT^+ 157 (1989) 426

Klinger, D.J., Shape of the binodal curves at a critical endpoint, Chem. Phys. Letters 145 (1988) 219. Erratum 157 (1989) 378
Kochelap, V.A., I.A. Izmailov and L.Yu. Mel'nikov, The possibility of population inversion and light gain due to electronic energy transfer from $N_2(A^3\Sigma_u^+)$ 157 (1989) 67
Konovalov, V.V., A.M. Raitsimring, Yu.D. Tsvetkov and I.I. Bilkis, Photoelectrochemical study of the radical anion cleavage rates in aromatic molecules: halobenzoic acids 157 (1989) 257
Kopelman, R., see J. Prasad 157 (1989) 535
Kouri, D.J., see C. Yu 157 (1989) 491
Krämer, R., see B. Brzezinski 157 (1989) 512
Krausz, E., see L. Dubicki 157 (1989) 315
Kress, J.D., Z. Bačić, G.A. Parker and R.T Pack, Quantum effects in the $F+H_2 \rightarrow HF+H$ reaction. Accurate 3D calculations with a realistic potential energy surface 157 (1989) 484
Krümpelmann, T., see L. Chow Chiu 157 (1989) 60
Kubozono, Y., see M. Ata 157 (1989) 19
Kühn, A., see J. Lotter 157 (1989) 171
Kuppermann, A., see S.A. Cuccaro 157 (1989) 440
Kwiatkowski, J.S., see M.J. Nowak 157 (1989) 14

Langhoff, P.W., see K.T. Leung 157 (1989) 135
Lapinski, L., see M.J. Nowak 157 (1989) 14
Larsson, S., Localization condition for metallic conductivity and superconductivity 157 (1989) 403
Lau, A.M.F. and W.M. Huo, Molecular transition moment determination by Autler–Townes spectroscopy: $D^1\Pi_u$–$E,F^1\Sigma_g^+$ bands of H_2 157 (1989) 108
Layton, E., see S.-I. Chu 157 (1989) 151
Lech, J. and A. Ślęzak, Aragonite→calcite transformation studied by EPR of Mn^{2+} ions 157 (1989) 175
Lee, S.-L. and I. Gutman, Topological analysis of the eigenvectors of the adjacency matrices in graph theory: degenerate case 157 (1989) 229
Legon, A.C. and A.P. Suckley, Pulsed-jet, diode-laser IR spectroscopy of the $v=1 \leftarrow 0$ transition in the CO_2 asymmetric stretching mode of (CO_2, HCN) 157 (1989) 5
Legon, A.C. and C.A. Rego, ^{14}N- and D-nuclear quadrupole coupling in the rotational spectrum of $(CH_3)_3{}^{14}N...H(D)F$: modification of the electric field gradients at the N and D nuclei 157 (1989) 243
Leung, K.T., J.A. Sheehy and P.W. Langhoff, Vibrational averaging effects on the valence-shell electron momentum distributions in H_2O employing Hartree–Fock-limit wavefunctions 157 (1989) 135
Li, Z. and H.A. Scheraga, Computation of the free energy of liquid water by the Monte Carlo recursion method, Chem. Phys. Letters 154 (1989) 516. Erratum 157 (1989) 579
Lin, S.H., see B. Fain 157 (1989) 233
Liu, X., see X. Wang 157 (1989) 87
Lloyd, C., see R.L. Blakley 157 (1989) 398
Lotter, J., A. Kühn and E. Illenberger, Formation of CF_4^- from CF_4 clusters 157 (1989) 171
Lupi, S., see P. Calvani 157 (1989) 11

Mack, H.-G. and H. Oberhammer, An ab initio study of the geometries and relative stabilities of isocyanates and cyanates 157 (1989) 436
Mague, J.T., see R.L. Blakley 157 (1989) 398
Majitov, M.I., see Yu.A. Serebrennikov 157 (1989) 462

Maldivi, P., A.-M. Giroud-Godquin, J.-C. Marchon, D. Guillon and A. Skoulios, Diruthenium(II, II) tetra-μ-alkylcarboxylates: magnetic susceptibility studies of their electronic configuration and thermotropic liquid crystalline mesophase 157 (1989) 552
Marchon, J.-C., see P. Maldivi 157 (1989) 552
Märk, T.D., see G. Walder 157 (1989) 224
Martín, F. and A. Salin, Phase shifts of continuum functions through a discretization method 157 (1989) 146
Martin, J.M.L., J.P. François and R. Gijbels, On the validity of Pople's infinite-order Møller–Plesset extrapolation and an alternative formula within MBP/CC theories 157 (1989) 217
Matsumoto, S., M. Toyama, T. Yasuda, T. Uchide and R. Ueno, Orthogonality constrained calculations of MC SCF excited states in non-adiabatic regions 157 (1989) 142
Matsumura, C., see K. Sugawara 157 (1989) 309
Matsushima, T., Y. Onai, K. Kasatani, M. Kawasaki and H. Sato, Resonance Raman spectra of Br_2 adsorbed on low-temperature solid surfaces: excitation profile extending to the region above the dissociation limit in the gas phase 157 (1989) 55
McClure, D.S., see C. Campochiaro 157 (1989) 78
McCurdy, K.E., see S.M. Anderson 157 (1989) 531
McKellar, A.R.W., see N. Moazzen-Ahmadi 157 (1989) 1
McPherson, G.L., see R.L. Blakley 157 (1989) 398
Medina, J., see M. Castillejo 157 (1989) 41
Mel'nikov, L.Yu., see V.A. Kochelap 157 (1989) 67
Metiu, H., see R. Heather 157 (1989) 505
Miehlich, B., A. Savin, H. Stoll and H. Preuss, Results obtained with the correlation energy density functionals of Becke and Lee, Yang and Parr 157 (1989) 200
Moazzen-Ahmadi, N., A.R.W. McKellar and T. Amano, Laboratory observation of the rotation–vibration spectrum of gas-phase C_5 157 (1989) 1
Mohanty, A.K. and E. Clementi, Kinetically balanced geometric Gaussian basis set calculations for relativistic many-electron atoms with finite nuclear size 157 (1989) 348
Moorthy, P.N., see K.I. Priyadarsini 157 (1989) 525
Mori, K., see H. Hiratsuka 157 (1989) 35
Mori, T., see K. Hiraoka 157 (1989) 467
Müller, A., see H. Kleindienst 157 (1989) 426
Munk, J., see P. Pagsberg 157 (1989) 271
Myrick, M.L., R.L. Blakley and M.K. DeArmond, The number and spacing of levels in the emitting manifold of $[Ru(bpy)_3]^{2+}$ low temperature measurements 157 (1989) 73
Myslík, V., see V. Švorčík 157 (1989) 390

Nag, A., R. Dutta, N. Chattopadhyay and K. Bhattacharyya, Effect of cyclodextrine cavity size on twisted intramolecular charge transfer emission: dimethylamino benzonitrile in β-cyclodextrine 157 (1989) 83
Naik, D.B., see K.I. Priyadarsini 157 (1989) 525
Nakanaga, T., see K. Sugawara 157 (1989) 309
Nguyen, M.T., Isocyanogen (NCNC) and diisocyanogen (CNNC): structures and some spectroscopic properties 157 (1989) 430
Nouchi, G., see C. Cazeau-Dubroca 157 (1989) 393
Nowak, M.J., L. Lapinski and J.S. Kwiatkowski, An infrared matrix isolation study of tautomerism in purine and adenine 157 (1989) 14
Nozik, A.J., see P.V. Kamat 157 (1989) 384

Oberhammer, H., see H.-G. Mack 157 (1989) 436
Obi, K., see H. Hiratsuka 157 (1989) 35
Okamoto, H., see T. Arai 157 (1989) 46
Onai, Y., see T. Matsushima 157 (1989) 55
Ottinger, Ch., see L. Chow Chiu 157 (1989) 60

Pack, R.T, see J.D. Kress 157 (1989) 484
Pagsberg, P., J. Munk, C. Anastasi and V. Simpson, UV spectrum of CD_2OD and its reactions with O_2, NO and NO_2 157 (1989) 271
Paidarová, I., see J. Vojtík 157 (1989) 337
Palacin, S., see T.-H. Tran-Thi 157 (1989) 92
Palchan, I., M. Crespin, H. Estrade-Szwarckopf and B. Rousseau, Graphite fluorides: an XPS study of a new type of C–F bonding 157 (1989) 321
Parker, G.A., see J.D. Kress 157 (1989) 484
Peirigua, A., see C. Cazeau-Dubroca 157 (1989) 393
Persky, A., see R. Edrei 157 (1989) 265
Petráš, M., see J. Vojtík 157 (1989) 337
Pople, J.A., see K. Raghavachari 157 (1989) 479
Prasad, J. and R. Kopelman, Molecular reaction kinetics inside channel pores: delayed fluorescence of naphthalene in methanol 157 (1989) 535
Preuss, H., see B. Miehlich 157 (1989) 200
Priyadarsini, K.I., D.B. Naik and P.N. Moorthy, Studies on the triplet state of coumarin 102 laser dye by pulse radiolysis 157 (1989) 525
Pyykkö, P., see M. Hotokka 157 (1989) 415

Qiu, J., see X. Wang 157 (1989) 87

Rabinowitz, P., see C. Campochiaro 157 (1989) 78
Raghavachari, K., G.W. Trucks, J.A. Pople and M. Head-Gordon, A fifth-order perturbation comparison of electron correlation theories 157 (1989) 479
Raitsimring, A.M., see V.V. Konovalov 157 (1989) 257
Rego, C.A., see A.C. Legon 157 (1989) 243
Richard, E.C., D.J. Donaldson and V. Vaida, Fourier transform UV/VIS emission spectroscopy of jet-cooled $CN(B^2\Sigma^+)$ 157 (1989) 295
Riley, M., see L. Dubicki 157 (1989) 315
Røeggen, I. and E. Wisløff Nilssen, Prediction of a metastable D_{3h} form of tetra oxygen 157 (1989) 409
Rohmer, M.-M., Photochemical cleavage of the metal–carbon bond in aluminium porphyrins: insights from ab initio calculations 157 (1989) 207
Rousseau, B., see I. Palchan 157 (1989) 321
Rühl, E., B. Brutschy and H. Baumgärtel, Autoionization resonances in homogeneous benzene clusters 157 (1989) 379
Rybka, V., see V. Švorčík 157 (1989) 390

Saigusa, H., Chemiluminescence detection of a phase response to an oxygen perturbation in the $Ru(bpy)_3^{2+}$ catalyzed Belouzov–Zhabotinskii reaction 157 (1989) 251
Sakai, T., see H. Ikeda 157 (1989) 576
Sakuragi, H., see T. Arai 157 (1989) 46

Salin, A., see F. Martín 157 (1989) 146
Sato, H., see T. Matsushima 157 (1989) 55
Savin, A., see B. Miehlich 157 (1989) 200
Šavrda, J., see J. Vojtík 157 (1989) 337
Saxon, R.P., see D. Talbi 157 (1989) 419
Scheek, R.M., see A.E. Torda 157 (1989) 289
Scheraga, H.A., see Z. Li 157 (1989) 579
Schmidt, A. and S. Vega, Dynamic off-magic angle-sample spinning NMR spectroscopy 157 (1989) 539
Schneider, W. and W. Thiel, Anharmonic force fields from analytic second derivatives: method and application to methyl bromide 157 (1989) 367
Schwenke, D.W., see C. Yu 157 (1989) 491
Serebrennikov, Yu.A. and M.I. Majitov, Spin–lattice relaxation in zero-magnetic field induced by molecular reorientations 157 (1989) 462
Sheehy, J.A., see K.T. Leung 157 (1989) 135
Shizuka, H., see H. Hiratsuka 157 (1989) 35
Shobatake, K., see T. Ibuki 157 (1989) 521
Simpson, V., see P. Pagsberg 157 (1989) 271
Skoulios, A., see P. Maldivi 157 (1989) 552
Ślęzak, A., see J. Lech 157 (1989) 175
Song, T., see X. Wang 157 (1989) 87
Špirko, V., see J. Vojtík 157 (1989) 337
Stoll, H., see B. Miehlich 157 (1989) 200
Stranger, R., On the assignment of doubly excited pair transitions in the electronic spectrum of $Cs_3Mo_2Cl_9$ 157 (1989) 472
Suckley, A.P., see A.C. Legon 157 (1989) 5
Sugawara, K., T. Nakanaga, H. Takeo and C. Matsumura, Rate constant measurements for reactions of SiH_3 with O_2, NO and NO_2 using time-resolved infrared diode laser spectroscopy 157 (1989) 309
Suzuki, Y., see M. Ata 157 (1989) 19
Švorčík, V., V. Rybka and V. Myslík, Photoetching of n-GaAs in Na^+ and K^+ salts 157 (1989) 390

Takahara, Y., K. Yamaguchi and T. Fueno, Potential energy curves of fluorine, nitrogen and ethylene calculated by approximately projected unrestricted Hartree–Fock and Møller–Plesset perturbation methods 157 (1989) 211
Takeo, H., see K. Sugawara 157 (1989) 309
Talbi, D. and R.P. Saxon, Low-lying states of Li_3H: Is there an ion-pair minimum? 157 (1989) 419
Teixeira-Dias, J.J.C., see J.M. Hollas 157 (1989) 31
Thiel, W., see W. Schneider 157 (1989) 367
Thompson, J.W. and M.S. Child, Spectroscopic predictions for alkali-atom–alkali-halide reaction intermediates 157 (1989) 343
Tokumaru, K., see T. Arai 157 (1989) 46
Torda, A.E., R.M. Scheek and W.F. van Gunsteren, Time-dependent distance restraints in molecular dynamics simulations 157 (1989) 289
Toyama, M., see S. Matsumoto 157 (1989) 142
Tran-Thi, T.-H., S. Palacin and B. Clergeot, Photogeneration of transient charge carriers in an alternate porphyrin–phthalocyanine Langmuir–Blodgett film 157 (1989) 92
Trucks, G.W., see J.D. Watts 157 (1989) 359

Trucks, G.W., see K. Raghavachari 157 (1989) 479
Truhlar, D.G., see S.C. Tucker 157 (1989) 164
Truhlar, D.G., see C. Yu 157 (1989) 491
Tsvetkov, Yu.D., see V.V. Konovalov 157 (1989) 257
Tucker, S.C. and D.G. Truhlar, Generalized Born fragment charge model for solvation effects as a function of reaction coordinate 157 (1989) 164

Uchide, T., see S. Matsumoto 157 (1989) 142
Ueno, R., see S. Matsumoto 157 (1989) 142
Ulstrup, J., see A.M. Kjær 157 (1989) 447

Vaida, V., see E.C. Richard 157 (1989) 295
Valentini, J.J., see G.J. Germann 157 (1989) 51
Van Gunsteren, W.F., see A.E. Torda 157 (1989) 289
Vega, S., see A. Schmidt 157 (1989) 539
Vojtík, J., I. Paidarová, V. Špirko, J. Šavrda and M. Petráš, Ab initio calculation of deuteron quadrupole coupling constants for low-lying rovibrational levels of HD in its $X\Sigma_g^+$ and $B\,^1\Sigma_u^+$ states 157 (1989) 337

Walder, G., C. Winkler and T.D. Märk, Transfer of vibrational energy in nitrogen clusters doped with O_2: new evidence for the origin of quantum effects in the metastable decay series of $(N_2)_n^{+*}$ 157 (1989) 224
Wang, X., X. Liu, T. Song, J. Hu and J. Qiu, Substitution of Si in SAPO-5 157 (1989) 87
Watts, J.D., G.W. Trucks and R.J. Bartlett, The unitary coupled-cluster approach and molecular properties. Applications of the UCC(4) method 157 (1989) 359
Whetten, R.L., see D.C. Easter 157 (1989) 277
Wiesner, J. and A. Wokaun, Anisometric gold colloids. Preparation, characterization, and optical properties 157 (1989) 569
Winkler, C., see G. Walder 157 (1989) 224
Wisløff Nilssen, E., see I. Røeggen 157 (1989) 409
Wokaun, A., see F.-H. Haegel 157 (1989) 328
Wokaun, A., see J. Wiesner 157 (1989) 569
Wu, Z.-C., see S.-I. Chu 157 (1989) 151

Yamada, I., see L. Dubicki 157 (1989) 315
Yamaguchi, K., see Y. Takahara 157 (1989) 211
Yamauchi, S., see M. Kato 157 (1989) 543
Yasuda, T., see S. Matsumoto 157 (1989) 142
Yin, Y., see R.L. Blakley 157 (1989) 398
Yu, C., D.J. Kouri, M. Zhao, D.G. Truhlar and D.W. Schwenke, Converged three-dimensional quantum mechanical reaction probabilities and delay times for the $F+H_2$ reaction on a potential energy surface with a realistic exit valley 157 (1989) 491

Zakaraya, M.G., see A.M. Kjær 157 (1989) 447
Zeegers-Huyskens, Th., Isotopic ratio ν_{HF}/ν_{HD} of hydrogen fluoride complexes in solid argon 157 (1989) 105
Zerbetto, F. and M.Z. Zgierski, On the $1A_g \rightarrow 1B_u$ absorption spectrum of four butadiene isotopomers 157 (1989) 515

Zerner, M.C., see S. Canuto 157 (1989) 353
Zgierski, M.Z., see F. Zerbetto 157 (1989) 515
Zhao, G., see M. Bensimon 157 (1989) 97
Zhao, M., see C. Yu 157 (1989) 491
Zundel, G., see B. Brzezinski 157 (1989) 512